

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/053216

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 F04D25/04 F04D25/06

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F04D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 427 508 A (KAPICH ET AL) 27 June 1995 (1995-06-27)	1,2
Y	the whole document	3,4
Y	US 2002/185127 A1 (MELKER RICHARD J ET AL) 12 December 2002 (2002-12-12)	3
	the whole document	
Y	EP 1 310 677 A (BORGWARNER INC) 14 May 2003 (2003-05-14)	4
	the whole document	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

23 March 2005

Date of mailing of the international search report

13/04/2005

Name and mailing address of the ISA  
European Patent Office, P.B. 5618 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Ingelbrecht, P

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/053216

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5427508	A	27-06-1995	NONE	
US 2002185127	A1	12-12-2002	US 6000396 A AU 6953596 A CA 2229439 A1 EP 0850083 A1 JP 2001517960 T WO 9706844 A1	14-12-1999 12-03-1997 27-02-1997 01-07-1998 09-10-2001 27-02-1997
EP 1310677	A	14-05-2003	US 2003084888 A1 EP 1310677 A2	08-05-2003 14-05-2003